HEALTH

Presented by: Tanya Christidis, PhD student

Contact: tchristi@uwaterloo.ca





.

Health and safety of other renewables

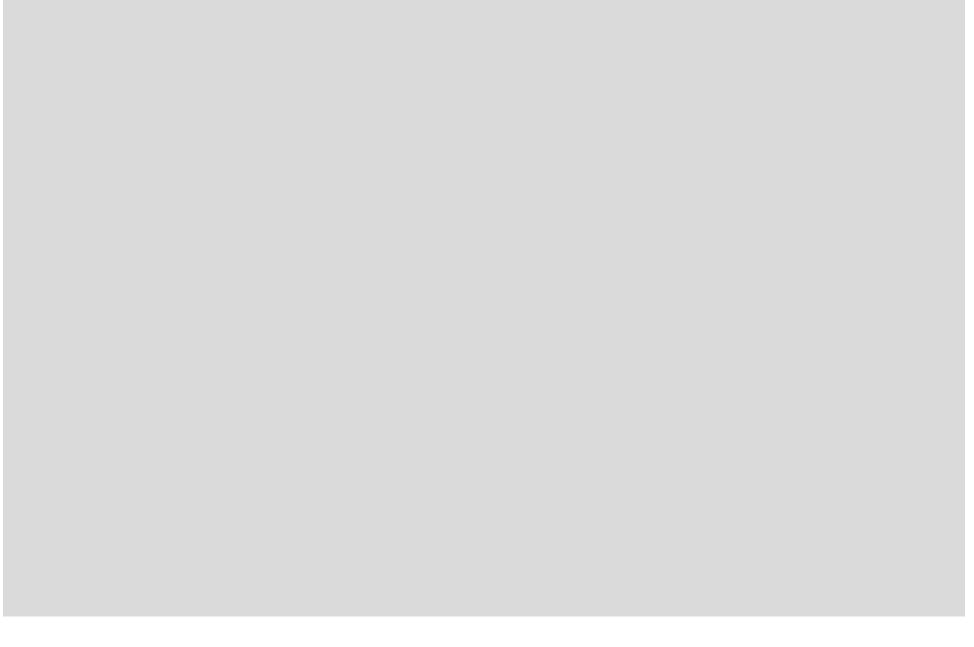




memory	











101101 0100p 011101010j (00/0 tol 0-/0)

- longer sleep onset latency (6 min vs. 4 min)
- longer wake after sleep onset (42 min vs. 29 min)
- No statistically significant differences after adjustment for age and sex





- Different wind directions and speed
- Sensitive microphone (0.5Hz)
- Hard to determine which noises are the wind and which noises are wind turbines
- Results were inconclusive

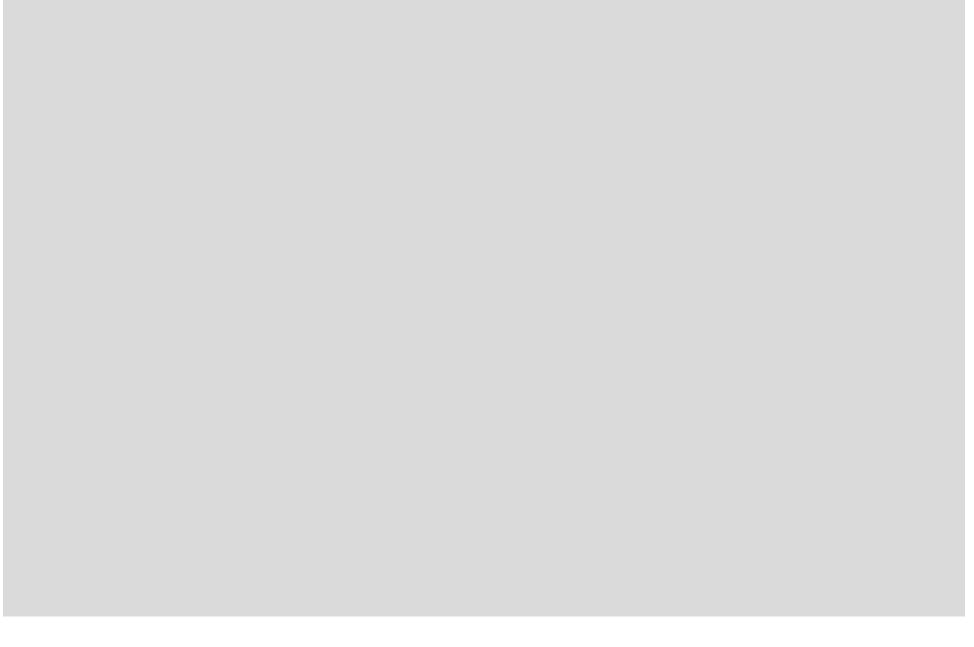














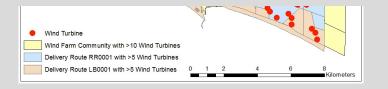


- Environmental Stressors
- Sleep
- Health and Well-Being
- Used standardized scales, questions from other surveys, some new questions





- · INU HAIHES UL AUULESSES
- How do we reach them?
 - Selected Canada Post delivery routes
 - Delivered approximately 5000 surveys using Canada Post AdMail



 (± 4.34)

- Age 55.33 years (±14.94)
- Median income \$60 000
- Proportion male 52%, married 79%*, postsecondary 59%*



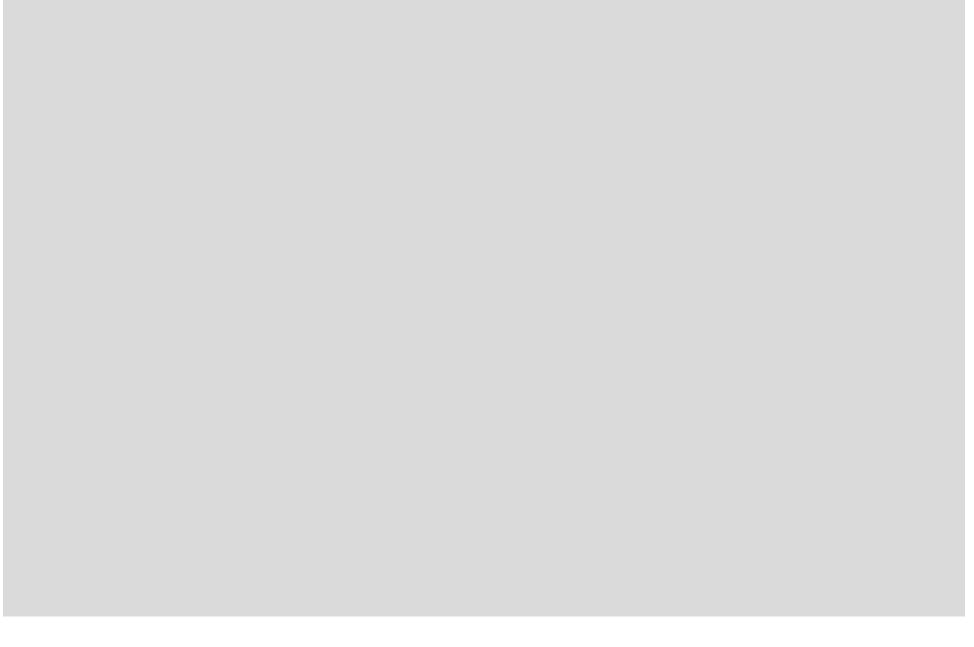


···,

- Vertigo was related to distance (p < 0.001) (R² = 0.11)
- Worthy of more research, limitations
- Ongoing analysis of other survey sections











etc.

- psychological and sociological dimensions
- Physical Health Assessment
 - · Health history, current health
 - Cortisol: saliva and hair samples







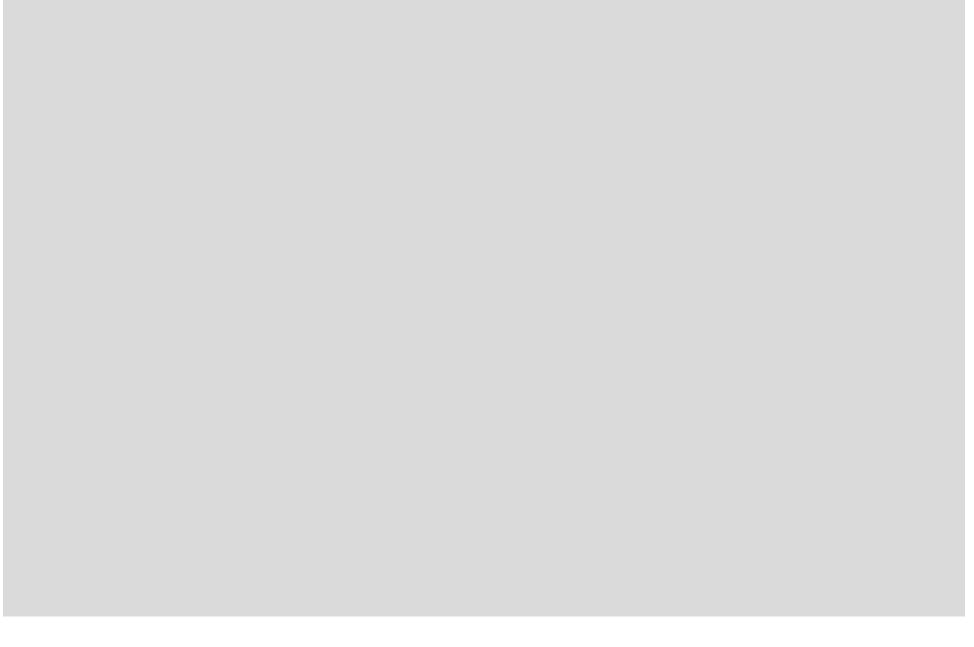


turbine mad migner contider revers

	Participants living <=500m from a wind turbine (average nmol/dl) n = 17	Participants living <500m from a wind turbine (average nmol/dl) n = 6	t Value	Pr > t
30 mins after waking	8.56 ± 10.04	15.53 ± 5.55	-2.10**	0.05**
90 mins after waking	4.08 ± 4.05	6.03 ± 4.85	-0.89	0.40
Before sleep	1.22 ± 1.30	0.96 ± 0.43	0.72	0.48











four provincial/federal newspapers





proportion of negative articles than provincial or national newspapers

- Non-health concerns (environmental damage, property values, aesthetic concerns, financial burden) juxtaposed with health issues
- May produce fear and anxiety in readers





reported sieep quanty and vertigo

- Limitations to these findings
- Health interviews ongoing
- Media amplifies perceived health risks





LOW TOOPOHOO TALO

- Self-reported
- Health assessments
 - Small sample





rinoato to intornar variant

- Are we confident in stating a relationship? Are there alternate explanations?
- Sources of bias
 - Is our sample reflective of the population of interest?
 - Are participants answering truthfully?





.Email me: <u>tchristi@uwaterloo.ca</u>

Group website: http://www.orc-reth.uwaterloo.ca



